

HIGH PERFORMANCE KRAFT FACING FOR FIBERGLASS INSULATION

CROSS REFERENCE TO RELATED APPLICATION

This application is a continuation in part of U.S. Patent Application 09/867,260 filed May 29, 2001, which is incorporated by reference in its entirety.

now abandoned,

TECHNICAL FIELD AND INDUSTRIAL APPLICABILITY OF THE INVENTION

This invention relates to improvements in the art of manufacturing thermal insulation batts.

This invention provides process for preparing a fiberglass insulation product. The process of this invention includes the steps of: (a) providing a layer of kraft paper, (b) coating the kraft paper layer with a high melting point film such as high density polyethylene (HDPE) or of polypropylene form an HDPE-kraft laminate or a polypropylene-kraft laminate, (c) coating the HDPE-kraft laminate with a low melting point film such as low density polyethylene (LDPE) to form an LDPE-HDPE-kraft laminate or an LDPE-polypropylene-kraft laminate, (d) adjusting the temperature of the LDPE-HDPE-kraft laminate or the LDPE-polypropylene-kraft laminate so that the LDPE becomes tacky while the HDPE or polypropylene remains solid, (e) providing a layer of fiberglass wool, and (f) contacting the LDPE layer of the LDPE-HDPE-kraft laminate or of the LDPE-polypropylene-kraft laminate with the fiberglass wool layer to bond the LDPE-HDPE-kraft laminate or LDPE-polypropylene-kraft laminate to the fiberglass wool layer to form a fiberglass insulation product.

BACKGROUND OF THE INVENTION

Thermal insulation batts are often comprised of a relatively thick layer of low density bulk insulating material, such as fiberglass wool, faced with for instance asphalt-coated kraft paper facing. The asphalt coating is used both to adhere the layer of thermal insulation to the facing and also to provide vapor barrier properties to the paper. Alternatively, foil-backed paper can be attached to the fiberglass wool with a thin coat of asphalt. Another approach to vapor retardance is to apply a separate 4- to 6-mil polyethylene film over installed insulation. Guardian Fiberglass, Inc. produces a polypropylene scrim kraft for insulation applications.